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present one it is 16,673, plus 91 additions in the appendix, making an addition of over 2000 names in two and one half years.

J. B. S. N.

Notes. — The sixteenth volume of *Acta Horti Petropolitani* consists of an enumeration of the plants of the Caucasus collected in 1890 by Sommer and Levier. It forms a volume of 586 pages, illustrated by forty-nine lithographed plates.

Dr. Greene has begun the issuance of a new publication, *Plantæ Bakerianæ*, to be devoted to a series of lists of plants collected by Mr. Carl F. Baker and his colleagues, and distributed to various herbaria on both sides of the Atlantic. Mr. Baker is an enthusiastic, expert, and discriminating collector, who has made good specimens, and while all botanists may not go so far as Professor Greene is likely to in the division of species, those who possess the sets are likely to welcome the critical notes on them.

Judging from the appearance of Nos. 6, 7, and 8 of *Zoe* as a single signature without cover, under the belated date of February 6, the West Coast naturalists are not giving to this journal the measure of support that may have been hoped for when it was recommenced last year.

The second part of Vol. X of the *Transactions of the Connecticut Academy of Arts and Sciences*, lately distributed, contains a paper by Evans on the Hawaiian Hepaticæ of the tribe Jubuloideæ, and a paper by Sturgis on some type specimens of Myxomycetes in the New York State Museum.

Parts XIII and XIV of the current volume of the *Transactions of the Linnean Society*, issued in October last, consist respectively of supplementary notes on the genus *Najas*, by A. B. Rendle, and the comparative anatomy of certain species of *Encephalartos*, by W. C. Worsdell.

Fascicles 1 and 2 of the second volume of *Icones Selectæ Horti Thenensis* have been distributed.

Part IV of Dr. Rydberg's "Studies on the Rocky Mountain Flora" and Part V of Professor Piper's "New and Noteworthy Northwestern Plants," in the *Bulletin of the Torrey Club* for January, add a large number of species supposed to be new to science.

An important contribution to the pharmacognosy of *Strophanthus* seed, by Perrédès, is printed as No. 15 of the papers from the Wellcome Chemical Research Laboratory of London, of which Professor Power, formerly of the University of Wisconsin, is director.

The histological characters of senega root, as it occurs in the drug market, are discussed by Professor Sayre in the *Druggists' Circular* for February, and it is found that little structural difference exists between *Polygala Senega* and *P. alba*, from which it is derived.

In *Pittonia* for January Dr. Greene presents descriptions of a considerable number of newly differentiated species of various groups, and some interesting incursions into the genus *Bidens*.

Professor Sargent, in the *Botanical Gazette* for January and *Rhodora* for February, adds to the large number of species of *Cratægus* that are being described from this country.

An address on the cotton plant, by Dr. W. H. Evans, has been printed by the Cotton Manufacturers' Association.

A monograph of *Melilotus*, by O. E. Schulz, with fruit and other illustrations, is contained in Heft 5 of Vol. XIX of the *Botanische Jahrbücher*.

A monograph of the genus *Siparuna*, by Dr. Janet R. Perkins, as "Beiträge zur Kenntnis der Monimiaceæ, III," is separately distributed from Heft 5 of Vol. XXVIII of the *Botanische Jahrbücher*.

The genus *Sophia*, as it occurs in New Mexico, is analyzed by Cockerell in the January number of the *Bulletin of the Torrey Club*.

The first fascicle of Vol. XX of the *Mémoires de la Société Linéenne de Normandie* consists mainly of a study of the structure and development of the conducting system in stem and leaf of the *Nyctagineæ*.

From a review of Jaennicke's papers on *Platanus*, in the *Botanisches Centralblatt* of February 13, it appears that the favorite shade tree known as *P. acerifolia* is regarded as a probable hybrid between the Old World plane, *P. orientalis*, and the American *P. occidentalis*, and not as a variety of the former, as has been commonly supposed.

Rather poorly printed reproductions of winter and summer photographs of a superb white oak are given in *American Gardening* for January 26.

An anatomical study of *Eriocaulon decangulare*, by Holm, appears in the *Botanical Gazette* for January.

The experiences, in Colombia, of a collector of *Odontoglossum crispum* are detailed by H. A. Sandback in *Gartenwelt* of January 19.

The cultivation of *Agave* in German East Africa is discussed by Hindorf in *Der Tropenpflanzer* for January.

Professor Lamson-Scribner, with the assistance of Mr. Merrill, has made an examination of the grasses of Elliott's Sketch of the Botany of South Carolina and Georgia, as represented in Elliott's herbarium, now in the possession of the College of Charleston, and the results constitute *Circular 29* of the Division of Agrostology of the United States Department of Agriculture.

The life-history of *Schizaea pusilla*, the smallest of our ferns which produces a protonema-like sexual generation, is discussed by Mrs. Britton and Miss Taylor in the *Bulletin of the Torrey Botanical Club* for January, which also contains the description of a new *Adiantum* of the *Capillus-Veneris* section, from New Mexico, by Dr. Underwood.

A number of fernwort papers, presented at a meeting of fern students held in New York, June 27, 1900, under the auspices of the Linnæan Fern Chapter, were issued in pamphlet form by W. N. Clute & Co., of Binghamton, on the 20th of December.

Among the *Selaginellas* of the *rupestris* group described as new by Hieronymus in the December issue of *Hedwigia* are several from the United States.

An ecological study of the New Jersey strand flora, by Dr. Harshberger, is reprinted from the *Proceedings of the Academy of Natural Sciences of Philadelphia* for 1900.

A flora of Lyon County, Iowa, by Professor Shimek, is separately printed from Vol. X of the *Annual Report of the Geological Survey* of that state.

"The Distribution of the Forest Trees of Iowa" is the title of a paper by Professor Shimek, reprinted from Vol. VII of the *Proceedings of the Iowa Academy of Sciences*.

An interesting forest study of anomalous growths of *Abies pectinata*, by Cavara, appears in the first fascicle of the current volume of *Le Stazioni Sperimentali Agrarie Italiane*.

"The Morphology of the Central Cylinder in the Angiosperms" is the subject of a paper by Dr. E. C. Jeffrey, reprinted from the *Transactions of the Canadian Institute*, illustrated by five calotype plates from photomicrographs.

The fall of leaves in Dicotyledons is considered by Tison in current numbers of the *Mémoires de la Société Linnéenne de Normandie*, and is illustrated by a large number of anatomical plates.

A condensed handbook of the diseases of cultivated plants in Ohio, by Professor Selby, constitutes *Bulletin 121* of the Agricultural Experiment Station of that state.

A note on Curare, by Bach, is contained in Vol. IV of the *Revista do Museu Paulista*, recently issued.

A portrait of Luther Burbank accompanies an otherwise illustrated article on his work in plant breeding, in *The Land of Sunshine* for February.

Drawing for process illustrations forms the subject of a practical illustrated article by Husnot, reprinted from Vol. III of the *Bulletin de la Société Linnéenne de Normandie*, which, while it may not be of much use to experts, ought to be studied by novices, — whose drawings are often the horror of editors who have to see them put into something printable.

An ecological study of the vegetation of Rio Grande do Sul, Brazil, by Lindman, has recently been published in Stockholm, under the auspices of the Royal Scientific Academy of that city.

The botanical appendix to Vol. XXV of the *K. Svenska Vetenskaps-Akademien Handlingar* contains a number of papers dealing with South American botany.

No. 2 of Mr. Beadle's "Studies in Cratægus" is reprinted from the *Botanical Gazette* for November, and consists entirely of descriptions of species supposed to be new to science.

A new *Helianthus* from Florida, *H. agrestis*, is described by Pollard in the *Proceedings of the Biological Society of Washington*, under date of November 30.

The Podocaulinæ, a group of Indian orchids, are monographed by Schlechter in the *Mémoires de l'Herbier Boissier* of November 15.

A very useful key to the genera of Basidiomycetes of Vermont, with references to scattered literature for the determination of species in the several genera, published in 1899 by Dr. E. A. Burt, of Middlebury, has been republished recently, in a somewhat extended form, by the Boston Mycological Club.

Publication of a revised list of New Zealand seaweeds, by Laing, is begun in Vol. XXIII of the *Transactions of the New Zealand Institute*.

Seedlings, the study of which is now interesting a considerable number of persons, form the subject of a paper by Cockayne in the *Transactions of the New Zealand Institute* for 1899, recently issued.

Forestry receives another important contribution in the *Annual Report of the Geological Survey of New Jersey* for 1899, recently issued, which is supplemented by a series of large maps, and illustrated by over thirty well-done plates, many of them illustrative of forestry matters abroad.

A preliminary report on some diseases of New England conifers due to fungi, by Dr. von Schrenk of the Shaw School of Botany, is published as *Bulletin 25* of the Division of Vegetable Physiology and Pathology of the United States Department of Agriculture, and, like Dr. von Schrenk's earlier papers, is superbly illustrated from photographs.

A second part of Greshoff's memoir on plants used to stupefy fish has recently been published as No. 29 of the *Mededeelingen uit 'slands plantentuin* (of the Buitenzorg Botanical Garden). An idea of its extent may be obtained from the statement that the alphabetical index of the species noticed occupies thirty-nine double-column pages of large octavo size.

Part V of Dr. Greshoff's "Nuttige Indische Planten," completing the first volume, is issued as an *Extra Bulletin* by the Koloniaal Museum of Haarlem. It concludes with an alphabetical index to the fifty plates included in the volume.

An enumeration of the caoutchouc and guttapercha plants collected by Van Romburgh in Sumatra, Borneo, Riouw, and Java, by the late Dr. Boerlage, constitutes No. 5 of the *Bulletin de l'Institut Botanique de Buitenzorg*.

Dr. E. M. Wilcox reprints some readable "Glimpses of Tropical Agriculture" from a recent number of the *Columbus Horticultural Journal*.

Rheotropism forms the subject of an interesting paper by Berg in the *Acta Universitatis Lundensis* for 1899, recently received.

Professor Corbett, in the twelfth *Report of the West Virginia Experiment Station*, describes an important auxanometer and gives an account of some of the uses to which he puts it.

Zoe, in its new form, continues to be almost entirely botanical. Several interesting papers on West Coast botany occupy the double number for September–October.

A biographic sketch of the late Judge David F. Day, with portrait, appears in the *Botanical Gazette* for November.